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TITLE: USER MANAGING METHOD, SUBSCRIBER ACCOMMODATING ROUTER DEVICE AND
SUBSCRIBER AUTHENTICATION SERVER DEVICE USED IN THE METHOD, AND COMPUTER
PROGRAM FOR PERFORMING THE METHOD

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ABSTRACT:

PROBLEM TO BE SOLVED: To manage which subscriber terminal device holds which
global IPv6 address in an IPv6 network access network.

SOLUTION: At the time of network login authentication of a subscriber
terminal device 1, a subscriber authentication server device 3 collects user
account information of the subscriber terminal device and a MAC address of the
subscriber terminal device from an authentication message transmitted
from the subscriber terminal device 1 and stores the user account information
and the MAC address in a user management table. At the time of expenditure an
IPv6 address of an IPv6 address prefix to the subscriber terminal device 1 after
the network login authentication, a subscriber accommodating router device 2
specifies a global IPv6 address of the subscriber terminal device 1 and sends
the global IPv6 address together with the MAC address of the subscriber terminal
device 1 to the subscriber authentication server device 3. The subscriber
authentication server device 3 manages which subscriber terminal device stores
which global IPv6 address with the MAC address of the subscriber terminal device
as a mapping key.